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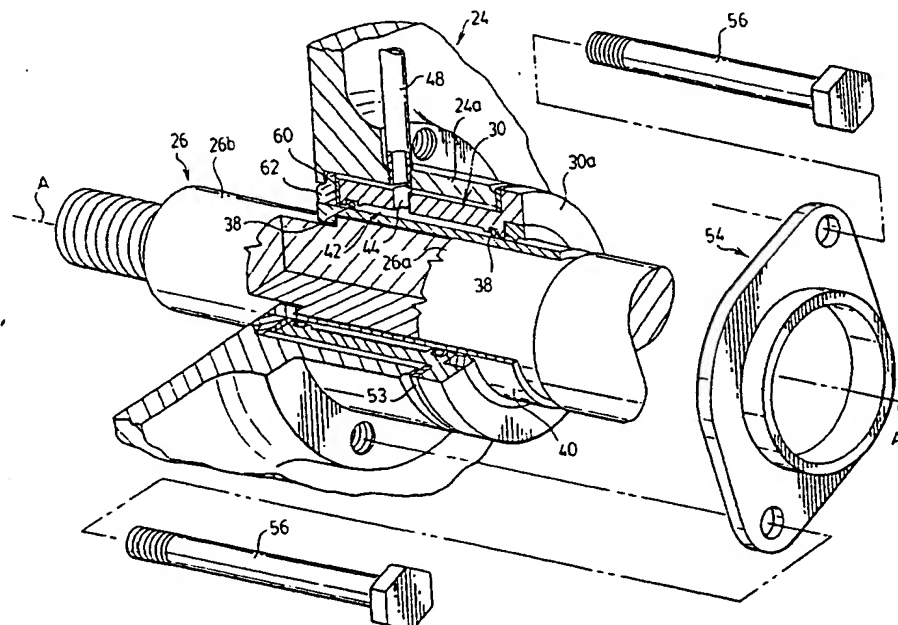
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(54) Title: **PRESSURIZED CHAMBER SEAL CARTRIDGE**



(57) Abstract: A seal cartridge (28) for a centrifugal pump (20) includes a housing (30) that fits within a conventional stuffing box of the pump and has a cylindrical internal surface receiving the shaft (26). A pair of annular grooves (34, 36) are provided internally of the housing adjacent respectively opposite ends thereof. Each groove receives an O-ring that runs in contact with the sleeve when the shaft rotates. The sleeve (40), housing and O-rings (38) define an annular chamber through which water is circulated to cool and lubricate the O-rings. The water is pressurized to cause the O-rings to deform and seal against the sleeve.

WO 02/070928 A1



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